Attorney Docket No: 21578-007

## PRIMORDIAL GERM CELL-BASED GERM LINE PRODUCTION OF BIRDS

## **ABSTRACT**

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The invention features an isolated avian gonadal cell, e.g., an ovarian cell or a testes cell, containing a heterologous nucleic acid as well as a method of introducing a nucleic acid molecule into the genome of an avian species, by contacting a population of isolated gonadal cells derived from a chick embryo with the nucleic acid molecule to yield transfected gonadal cells, and transferring the transfected gonadal cells to a fertilized avian egg

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